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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/441,654		11/12/1999	SHAM-YUEN CHAN	MSB-7263 .	4743
20306	7590	06/19/2003			
			RT & BERGHOFF	EXAMI	NER
300 SOUTH SUITE 3200		R DRIVE	BUGAISKY, GABRIELE E		
CHICAGO,	IL 6060¢	6		ART UNIT	PAPER NUMBER
				1653	71
				DATE MAILED: 06/19/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.		Applicant(s)
	τ.	09/441,654		CHAN, SHAM-YUEN
Office Action	Examiner		Art Unit	
		Gabriele E. BUGAIS	SKY	1653
The MAILING DATE Period for R ply	of this communication a	ppears on the cover sl	neet with the c	rrespondence address
A SHORTENED STATUT	ORY PERIOD FOR DER	V IS SET TO EVOID	DE 2 MANTU/	e) EDOM
THE MAILING DATE OF  - Extensions of time may be availab after SIX (6) MONTHS from the m  - If the period for reply specified abo	THIS COMMUNICATION the under the provisions of 37 CFR ailing date of this communication. ove is less than thirty (30) days, a re above, the maximum statutory period tended period for reply will, by state ter than three months after the mail	I.  1.136(a). In no event, however  apply within the statutory minimu  d will apply and will expire SIX  ute. cause the application to be	may a reply be time m of thirty (30) days (6) MONTHS from ti	ely filed will be considered timely. he mailing date of this communication.
1) Responsive to com	ımunication(s) filed on 26	6 February 2003 .		
2a)⊠ This action is <b>FINA</b>		This action is non-final	l <b>.</b>	
closed in accordan	on is in condition for allow ce with the practice unde	wance except for former <i>Ex parte Quayle</i> , 19	al matters, pro	osecution as to the merits is 53 O.G. 213.
Disposition of Claims				
4)⊠ Claim(s) <u>2,6-9,15,1</u>		-		
	im(s) is/are withdr	awn from consideration	on.	
5) Claim(s) is/ar				
6) Claim(s) is/ar				
7) Claim(s) is/ar	-			
8)☐ Claim(s) are : Application Papers	subject to restriction and	or election requireme	nt.	
9)⊠ The specification is o	bjected to by the Examir	ner.		
10)☐ The drawing(s) filed o	on is/are: a)∏ acc	epted or b) objected	to by the Exam	niner.
	quest that any objection to			
11) The proposed drawin				ed by the Examiner.
	d drawings are required in r			
12)☐ The oath or declaration	•	xaminer.		
Priority under 35 U.S.C. §§ 1				
13) Acknowledgment is		gn priority under 35 U.	.S.C. § 119(a)	-(d) or (f).
a)□ All b)□ Some *	c) None of:			
<ol> <li>Certified copie</li> </ol>	es of the priority documer	nts have been receive	d.	
2. Certified copie	es of the priority documer	nts have been receive	d in Applicatio	n No
application	certified copies of the pri n from the International B iled Office action for a lis	ureau (PCT Rule 17.2	2(a)).	_
				to a provisional application).
	of the foreign language p			
15) Acknowledgment is m	ade of a claim for domes	stic priority under 35 U	J.S.C. §§ 120 a	and/or 121.
uttachment(s)				
Notice of References Cited (PTo 2) Notice of Draftsperson's Patent 3) Information Disclosure Stateme	Drawing Review (PTO-948)	5) No	tice of Informal Pa	PTO-413) Paper No(s) stent Application (PTO-152)
Patent and Trademark Office O-326 (Rev. 04-01)	Office	Action Summary		Part of Paper No. 21



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The amendment of 2/26/2003 is acknowledged. Claims 2 and 15 have been amended, . Claims currently pending and under consideration are 2, 6-9, 15, 19-21 and 25-26.

### Specification

The disclosure remains objected to because of the following informalities: patent application numbers remain in the disclosure.

Appropriate correction is required.

The amendment filed 2/26/2003 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: reference is now made to an application filed **AFTER** the filing date of this application.

Applicant is required to cancel the new matter in the reply to this Office Action.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

While the Examiner maintains that the glycosylation pattern of human hepatocyte growth factor activator inhibitor type 2 from conditioned medium of MKN45 cells is an inherent feature,

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the rejection of claims 2 and 6-9 and 25 under 35 U.S.C. 102(b) as being anticipated by Kawaguchi *et al.* is withdrawn, in favor of the following rejection:

Claims 2, 6-9 are and 25 are rejected under 35 U.S.C. 102(b) as being anticipated by Shimomura *et al.* (US patent 5731412) Shimomura *et al.* provides for purification of human hepatocyte growth factor activator inhibitor type 2 from conditioned medium of MKN45 cells; the primary amino acid sequence of human hepatocyte growth factor activator inhibitor type 2 is identical to instant SEQ ID NO:1 and thus has the idne6tity of placental bikunin. The reference is deemed anticipatory for the claimed subject matter because the cloned human hepatocyte growth factor activator is expressed in and isolated from COS cells. (see Example 8) The glycosylation pattern is presumed to be identical in COS cells, which are the same cells used to produce the glycosylated bikunin of the instant application. With respect to the recited pharmaceutically acceptable carrier, the protein activity was assayed in PBS.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The rejection of claims 15,18-21 and 26 under 35 U.S.C. 103(a) as being unpatentable over Gentz *et al.* in view of Gribben *et al.* and Hotchkiss *et al* is withdrawn, based upon the amendment.

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Claims 15,18-21 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shimomura et al. in view of Delaria et al. Shimomura et al. is discussed above. They do not test the activity of each Kunitz domain against human hepatocyte growth factor activator. Delaria et al. provide monokunins produced in Sf-1 cells and tests their activity against the factor VIIa-tissue factor complex and factor Xa, but does not test it against human hepatocyte growth factor activator. It would have been obvious for one of skill in the art at the time of the invention to produce the single Kunitz domains of Delaria et al in the CHO culture system of Shimomura et al., with the intended use for testing each glycosylated domain for activity against human hepatocyte growth factor activator. One would have had a very high expectation of success in the venture.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gabriele E. BUGAISKY whose telephone number is (703)308-4201. The examiner can normally be reached on 8:15 AM- 2 PM, Tu & Th, 8:15 AM-1:30 PM, We & Fr.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher SF Low can be reached on (703) 308-2923. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308-4242 for regular communications and 703 308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 708 308-0196.

Gabriele E. BUGAISKY

Primary Examiner
Art Unit 1653

June 16, 2003